

COLEX[®]

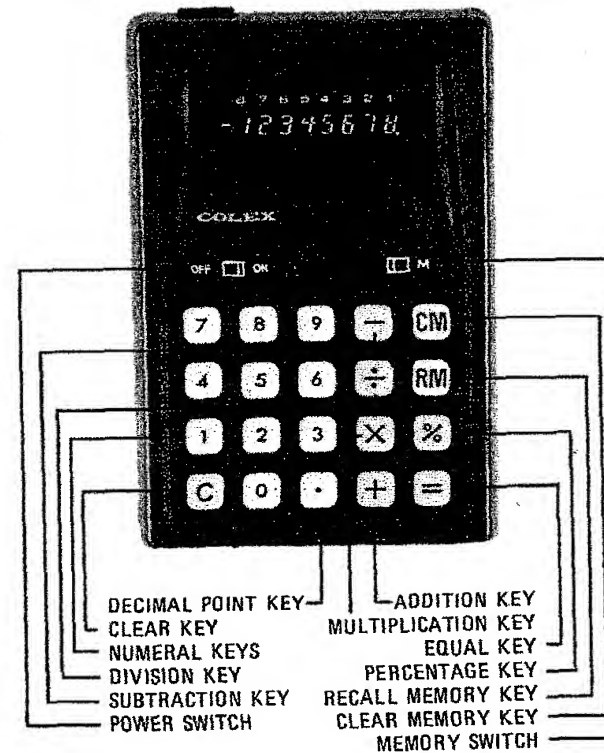


MODEL 811
INSTRUCTIONS








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


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KEYBOARD DESCRIPTION



KEY FUNCTION

- off  on **POWER SWITCH**
Turns calculator on and off located on side of calculator.
-  M **MEMORY SWITCH**
Two - position slide switch.
To the right : on
To the left : off
-  **CLEAR KEY**
Press once, clear only previous figure. Twice, clear all the figures in calculator.
-  **PERCENTAGE KEY**
To be depressed for percentage calculation.
-  **MULTIPLICATION KEY**
To be depressed for multiplication.
-  **DIVISION KEY**
To be depressed for division.
-  **ADDITION KEY**
To be depressed for addition.

-  **SUBTRACTION KEY**
To be depressed for subtraction.
-  **EQUAL KEY**
For the result of multiplication and Division.
-  **CLEAR MEMORY KEY**
For Clearing the figures in memory.
-  **RECALL MEMORY KEY**
For recalling the figures in memory.

DISPLAY INDICATORS

- MINUS SIGN**
Appears when negative numbers or results are displayed —
- OVERFLOW INDICATOR**
Appears when calculation result exceeds 8 integral digits.

ADDITION AND SUBTRACTION

$$23 + 56 - 19 = 60$$

Operation	Display
<input type="button" value="C"/>	0.
23	23.
<input type="button" value="+"/>	23.
56	56.
<input type="button" value="+"/>	79.
19	19.
<input type="button" value="-"/>	60.

REPEATED ADDITION AND SUBTRACTION

$$3 + 3 + 3 - 2 - 2 = 5$$

Operation	Display
<input type="button" value="C"/>	0.
3	3.
<input type="button" value="+"/>	3.
<input type="button" value="+"/>	6.
<input type="button" value="+"/>	9.
2	2.
<input type="button" value="-"/>	7.
<input type="button" value="-"/>	5.

MULTIPLICATION AND DIVISION

$$12.3 \times 23.4 \div 7.8 = 36.9$$

Operation	Display
<input type="button" value="C"/>	0.
12.3	12.3
<input type="button" value="x"/>	12.3
23.4	23.4
<input type="button" value="÷"/>	287.82
7.8	7.8
<input type="button" value="="/>	36.9.

MULTIPLICATION BY CONSTANT

$$2 \times 4 = 8$$

$$2 \times 5 = 10$$

$$2 \times 6 = 12$$

Operation	Display
<input type="button" value="C"/>	0.
2	2.
<input type="button" value="x"/>	2.
4	4.
<input type="button" value="="/>	8.
5	5.
<input type="button" value="="/>	10.
6	6.
<input type="button" value="="/>	12.

DIVISION BY CONSTANT

$$15 \div 5 = 3$$

$$20 \div 5 = 4$$

$$25 \div 5 = 5$$

Operation

C

15

÷

5

=

20

=

25

=

Display

0.
15.
15.
5.
3.
20.
4.
25.
5.

AUTOMATIC ACCUMULATION

BY MEMORY

Sub-totals

and Grand Total

$$2 \times 8 = 16$$

$$4 \times 3 = 12$$

$$9 \times 8 = 72$$

100

Operation

C **CM** **M** →

2

x

8

=

4

x

3

=

9

x

8

=

RM

Display

0.
2.
2.
8.
16.
4.
4.
3.
12.
9.
9.
8.
72.
100.

PERCENTAGE CALCULATION

10% of 1,500 = 150

Operation	Display
1 500	1500.
<input type="button" value="x"/>	1500.
10	10.
<input type="button" value="%"/>	150.

CONSTANT PERCENTAGE CALCULATION

10% of 1,200

15% of 1,200

20% of 1,200

Operation	Display
1 200	1200.
<input type="button" value="x"/>	1200.
10	10.
<input type="button" value="%"/>	120.
15	15.
<input type="button" value="%"/>	180.
20	20.
<input type="button" value="%"/>	240.

MIXED CALCULATION

$$\frac{8 \times 5 + 6 - 16}{2} = 15$$

Operation	Display
<input type="button" value="C"/>	0.
8	8.
<input type="button" value="x"/>	8.
5	5.
<input type="button" value="="/>	40.
<input type="button" value="+"/> +	40.
6	6.
<input type="button" value="+"/> +	46.
16	16.
<input type="button" value="-"/>	30.
<input type="button" value="÷"/>	30.
2	2.
<input type="button" value="="/>	15.

COMPOUND INTEREST

1,000.00 Is Invested At

3.5% p.a. For 3 Years

$$1.035 \times 1,000 = 1,035$$

$$= 1,071.225$$

$$= 1,108.7178$$

Operation	Display
<input type="button" value="C"/>	0.
1.035	1035.
<input type="button" value="x"/>	1035.
1 000	1000.
<input type="button" value="="/>	1035.
<input type="button" value="="/>	1071.225
<input type="button" value="="/>	1108.7178

RECIPROCAL CALCULATION

$$\frac{1}{(4 + 3) \times 2} = 0.0714285$$

Operation	Display
<input type="button" value="C"/>	0.
4	4.
<input type="button" value="+"/> +	4.
3	3.
<input type="button" value="+"/> +	7.
<input type="button" value="x"/> x	7.
2	2.
<input type="button" value="="/> =	14.
<input type="button" value="÷"/> ÷	14.
<input type="button" value="="/> =	1.
<input type="button" value="="/> =	0.0714285

CURRENCY CONVERSION

Article	US\$	HK\$
A	15.00	78.00
B	20.00	104.00
Total		182.00

Exchange rate 5.2 to 1

Operation	Display
[M] →	0.
[C] [CM]	0.
5.2	5.2
[x]	5.2
15	15.
[=]	78.
20	20.
[=]	104.
[RM]	182.

INVOICING

Qty.	Price	Amount
24	3.5	= 84
Less 13.5%		= 11.34
net		= 72.66

Operation	Display
[C]	0.
24	24.
[x]	24.
3.5	3.5
[x]	84.
13.5	13.5
[%]	11.34
[−]	72.66

RAISING POWER

$$3^2 = 9$$

$$3^3 = 27$$

$$3^4 = 81$$

$$3^5 = 243$$

Operation

C

3

x

=

=

=

=

Display

0.
3.
3.
9.
27.
81.
243.

PRORATING

$$A \ 150 = \dots\dots\% \ 15\%$$

$$B \ 250 = \dots\dots\% \ 25\%$$

$$C \ 600 = \dots\dots\% \ 60\%$$

Total 100%

Operation

C **CM**

150

+

250

+

600

+

x

1

%

÷

=

150 **M** →

=

250

=

600

=

RM

Display

0.
150.
150.
250.
400.
600.
1000.
1000.
1000.
10.
10.
1.
150.
15.
250.
25.
600.
60.
100.

EXTRACTION OF SQUARE ROOT

Use Formula

$$\sqrt{A} = \left(\frac{A}{a} + a \right) \div 2$$

A = radicand

a = approximate value of A

$$\sqrt{18} \text{ a} = 4$$

$$\sqrt{18} = 4.25$$

Operation

Display

<input type="button" value="C"/>	0.
18	18.
<input type="button" value="÷"/>	18.
4	4.
<input type="button" value="="/>	4.5
<input type="button" value="÷"/>	4.5
4	4
<input type="button" value="÷"/>	8.5
<input type="button" value="÷"/>	8.5
2	2
<input type="button" value="="/>	4.25